



LNP™ THERMOCOMP™ Compound EF004

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound EF-1004

Product reorder name: EF004

LNP THERMOCOMP EF004 is a compound based on Polyetherimide resin containing 20% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1530	kgf/cm ²	ASTM D 638
Tensile Strain, break	3.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	73200	kgf/cm ²	ASTM D 638
Flexural Stress	2450	kgf/cm ²	ASTM D 790
Flexural Modulus	77200	kgf/cm ²	ASTM D 790
Tensile Stress, break	155	MPa	ISO 527
Tensile Strain, break	2.9 - 4	%	ISO 527
Tensile Modulus, 1 mm/min	6800	MPa	ISO 527
Flexural Stress	226	MPa	ISO 178
Flexural Modulus	6800	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	70	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	47	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.5E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	205	°C	ISO 75/Af
PHYSICAL			
Density	1.43	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.19	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ISO 294
Wear Factor Washer	140	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.52	-	ASTM D 3702 Modified: Manual
Static COF	0.48	-	ASTM D 3702 Modified: Manual
Density	1.43	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm